

IOT FOR CIVIL & STRUCTURAL ENGINEERS



Thanks to IoT enabled solutions, infrastructure projects have a choice of reliable building materials for grand projects. Superstructures like bridges and skyscrapers are subject to seismic activity and high winds. A structural health monitoring solution can assess the impact of these forces on the underlying steel and provide the early notifications to prevent catastrophic failure of the structure.

Danish company Sensohive has created a solution for improving concrete pour quality using IoT. This ruggedized system has advanced thermal sensors, to monitor the curing process, coupled with long range wireless transmission capabilities to operate in remote sites. This system effectively replaces the time consuming standard 'cube test' involving casting test specimens.



Other lightweight building materials like glass is also taking advantage of the IoT revolution. US based startup, View, has pioneered dynamic electronic glass with advanced tinting technology that is being globally deployed across major airports and corporate buildings. View glass respond to their environment by dynamically adjusting their tint levels for comfort and reduced air conditioning costs.



Capsule Labs is founded by IoT industry veterans and offers foundational IoT projects to develop a better understanding of IoT solution.